



Northeastern University

College of Professional Studies

Transfer Articulation Guide

Roxbury Community College A.S. Web Technologies to Northeastern University College of Professional Studies BS Information Technology

Roxbury Community College AS in Web Technologies Courses			Northeastern University College of Professional Studies BS in Information Technology Equivalencies		
First Semester					
ACS 102	The College Experience	3		<i>(No transfer)</i>	0
ENG 101	English Composition I	3	ENG 1105 + ENG 1106	College Writing 1 + Lab	3
IST 110	IT Problem Solving	3	ITC 1990	ITC Elective <i>(Open Elective)</i>	3
MAT 103	Pre-Calculus	4	MTH 1200 + MTH 2990	Pre-Calculus + MTH Elective <i>(Waive MTH 1100)</i>	4
IST 145	Visual Basic	3	ITC 1990	ITC Elective <i>(Programming)</i>	3
Second Semester					
IST 130	Linux Operating Systems	3	ITC 3250	Unix Systems Administration <i>(Professional Elective; waive ITC 1200)</i>	3
ENG 102	English Composition II	3	ENG 1107 + ENG 1108	College Writing II + Lab	3
IST 140	Introduction to Networking	3	ITC 2200	Networking Foundations	3
IST 120	Microcomputer Applications	3	ITC 1000	Computer Applications <i>(Open Elective)</i>	3
IST 150	Web Design Fluency	3	ITC 3990	ITC Elective <i>(Professional Elective)</i>	3
Third Semester					
<i>SCI</i> See note below	Laboratory Science Elective	4		<i>(ND Core: Engaging with the Natural and Designed World)</i>	4
<i>HUM/ENG/LAN</i> Take any	HUM/ENG/LAN Elective	3		<i>(Open Elective)</i>	3
IST 151	Web Development & Design 2	3	ITC 2400	Web and Mobile Development	3
IST 141	Wireless Networking	3	ITC 3220	Mobile and Wireless Networking	3
<i>SSI Elective</i> Take SSI 124 or SSI 101	Intro to Cultural Anthropology or World History I	3	ANT 1150 or HST 1100	Cultural Anthropology or History of the World 1: Prehistory to the Renaissance <i>(IC and SI Core)</i>	3

Fourth Semester					
HUM/ENG/LAN Take any	HUM/ENG/LAN Elective	3		(Open Elective)	3
IST 210	Social Issues & Ethics in Computing	3	PHL 2140	Ethical Issues in Science and Engineering	3
IST 250	Web Graphics	3	ITC 3400	Web Design and Multimedia	3
IST	IST Internship	3	ITC 2990	ITC Elective (Professional Elective)	3
IST 251	Internet Programming	3	ITC 2990	ITC Elective (Professional Elective)	3

SCI Laboratory Science Elective Course Option

SCI 103	Biology I	4	BIO 1100 + BIO 1101	Principles of Biology 1 + Lab	4
SCI 104	Biology II	4	BIO 1200 + BIO 1201	Principles of Biology 2 + Lab	4
SCI 106	Nutrition w/Lab	4	HSC 1200 + HSC 1990	Nutrition + HSC Elective	4
SCI 123	Principles of Chemistry I	4	CHM 1100 + CHM 1101	General Chemistry 1 + Lab	4
SCI 124	Principles of Chemistry II	4	CHM 1200 + CHM 1201	General Chemistry 2 + Lab	4
SCI 143	Principles of Physics I	4	PHY 1200 + PHY 1201	Physics 1 + Lab	4
SCI 144	Principles of Physics II	4	PHY 2200 + PHY 2201	Physics 2 + Lab	4
SCI 201	Anatomy and Physiology I	4	BIO 1600 + BIO 1601	Human Anatomy and Physiology 1 + Lab	4
SCI 202	Anatomy and Physiology II	4	BIO 1700 + BIO 1701	Human Anatomy and Physiology 2 + Lab	4

BS in Information Technology
Courses to be taken at CPS

General Foundation			Prerequisite
ENG 3105	Writing for the Professions–Science & Engineering	3	(ENG 1103 + ENG 1104) or (ENG 1105 + ENG 1106); ENG 3105 and ENG 3106 are co-requisites
ENG 3106	Lab for ENG 3105	1	
General Foundation Total		4	
Information Technology Foundation			
ITC 2016	End User Data Analysis Tools	3	
MGT 1100	Introduction to Business	3	
MGT 2310	Organizational Behavior	3	HMG 1100 or MGT 1100
MTH 2400	Technology and Applications of Discrete Mathematics	3	MTH 1100, MTH 1200, or MTH 2100
Business Foundation Total		12	
Major			
ITC 2100	Introduction to Programming (Java)	3	MTH 2100, MTH 2105, MTH 2110, or MTH 2400
ITC 2300	Database Management Systems	3	ITC 2000
ITC 4500	IT Project Management	3	ITC 2100, ITC 2200, ITC 2300 and ITC 2400
ITC 4600	Information Security Management	3	ITC 2200 and ITC 2300
ITC 4840	Preparation for IT Project	3	ITC 4500
ITC 4850	Information Technology Project	3	ITC 4840
Major Total		18	
Major Areas			
<i>Systems Analysis and Design (Complete one)</i>			
ITC 2000	Principles of Systems Analysis and Design	3	
CET 4240	Software Engineering	3	(CET 2200 or ITC 2100) and CET 2300
Systems Analysis and Design Total		3	
<i>Human-Computer Interaction (Complete one)</i>			
TCC 3450	Writing for the Web	3	ENG 1107 and TCC 2200
ITC 1100	Human-Computer Interfaces	3	
Human-Computer Interaction Total		3	
<i>Database (Complete one)</i>			
ITC 3300	Structured Query Language (SQL)	3	ITC 2300
ITC 3150	Database Websites with PHP/MySQL	3	ITC 2300 and ITC 2400
ITC 3320	Data Warehousing Technologies	3	ITC 2300
Database Total		3	
Professional Elective Total		3	
Open Elective Total		15	
Credits to be taken at CPS		61	
Total Credits required for CPS BS Information Technology		120	

^ RCC students are recommended to take ITC 3150.

Optional Concentrations

(Credits satisfy Professional Electives or Open Electives.)

Applications Development Concentration			
<i>Complete 5 courses from the following that have not been taken to fulfill major requirements.</i>			
CET 2200	Data Structures and Algorithms	3	GET 2100 or ITC 2100
CET 2300	Object-Oriented Programming	3	CET 2200
CET 4240	Software Engineering	3	(CET 2200 or ITC 2100) + CET 2300
ITC 2430	E-Commerce Systems	3	MGT 1100
ITC 3100	Advanced Applications Development	3	ITC 2100, GET 2100 or CET 2200
ITC 3150	Database Websites with PHP/MySQL	3	ITC 2300 + ITC 2400
ITC 3300	Structured Query Language (SQL)	3	ITC 2300
ITC 3320	Data Warehousing Technologies	3	ITC 2300
ITC 3400	Web Design and Multimedia	3	ITC 2400
<i>Applications Development Concentration Total</i>		15	

Systems Administration and Cybersecurity Concentration			
<i>Complete 5 courses from the following that have not been taken to fulfill major requirements.</i>			
ITC 3220	Mobile and Wireless Networking	3	ITC 2200
ITC 3250	Unix Systems Administration	3	ITC 1200
ITC 3620	Legal and Ethical Issues in Cybersecurity	3	
ITC 4200	Network Security	3	ITC 2200
ITC 4210	Web Server Administration	3	ITC 3250
ITC 4260	Database Administration	3	ITC 3300
ITC 4650	Compliance and Risk Issues in Information Technology	3	ITC 4600
ITC 4660	Encryption Concepts	3	ITC 4220
ITC 4670	Software Vulnerabilities	3	ITC 3100 or CET 2300
ITC 4680	Forensics in Information Technology	3	ITC 4200
<i>Systems Administration and Cybersecurity Concentration Total</i>		15	